

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Perkin-Elmer Corporation,
Applied Biosystems Division

5 (ii) TITLE OF INVENTION: ENERGY TRANSFER DYES
WITH ENHANCED FLUORESCENCE

(iii) NUMBER OF SEQUENCES: 2

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: David J. Weitz, Wilson
10 Sonsini Goodrich & Rosati

(B) STREET: 650 Page Mill Road

(C) CITY: Palo Alto

(D) STATE: California

(E) COUNTRY: USA

15 (F) ZIP: 94304-1050

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5 inch diskette

(B) COMPUTER: IBM compatible

20 (C) OPERATING SYSTEM: Microsoft Windows
3.1/DOS 5.0

(D) SOFTWARE: Wordperfect for windows 6.0,
ASCII (DOS) TEXT format

25 (vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:

(B) FILING DATE:

(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/642,330

(B) FILING DATE: May 3, 1996

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(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/672,196

(B) FILING DATE: June 27, 1996

(viii) ATTORNEY/AGENT INFORMATION:

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(A) NAME: David J. Weitz

(B) REGISTRATION NUMBER: 38,362

(C) REFERENCE/DOCKET NUMBER: PELM4304

(ix) TELECOMMUNICATION INFORMATION:

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(A) TELEPHONE: (415) 493-9300

(B) TELEFAX: (415) 493-6811

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

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(A) LENGTH: 1217 nucleotides

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

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GCCAAGCTTG	CATGCCTGCA	GGTCGACTCT	AGAGGATCCC	40
CGGGTACCGA	GCTCGAATTC	GTAATCATGG	TCATAGCTGT	80
TTCCTGTGTG	AAATTGTTAT	CCGCTCACAA	TTCCACACAA	120
CATACGAGCC	GGAAGCATAA	AGTGTAAGC	CTGGGGTGCC	160
TAATGAGTGA	GCTAACTCAC	ATTAATTGCG	TTGCGCTCAC	200

	TGCCCCGCTTT	CCAGTCGGGA	AACCTGTCGT	GCCAGCTGCA	240
	TTAATGAATC	GGCCAACGCG	CGGGGAGAGG	CGGTTTGCGT	280
	ATTGGGCGCC	AGGGTGGTTT	TTCTTTTCAC	CAGTGAGACG	320
	GGCAACAGCT	GATTGCCCTT	CACCGCCTGG	CCCTGAGAGA	360
5	GTTGCAGCAA	GCGGTCCACG	CTGGTTTGCC	CCAGCAGGCG	400
	AAAATCCTGT	TTGATGGTGG	TTCCGAAATC	GGCAAAATCC	440
	CTTATAAATC	AAAAGAATAG	CCCGAGATAG	GGTTGAGTGT	480
	TGTTCCAGTT	TGGAACAAGA	GTCCACTATT	AAAGAACGTG	520
	GACTCCAACG	TCAAAGGGCG	AAAAACCGTC	TATCAGGGCG	560
10	ATGGCCCACT	ACGTGAACCA	TCACCCAAAT	CAAGTTTTTT	600
	GGGGTCGAGG	TGCCGTAAAG	CACTAAATCG	GAACCCTAAA	640
	GGGAGCCCCC	GATTTAGAGC	TTGACGGGGA	AAGCCGGCGA	680
	ACGTGGCGAG	AAAGGAAGGG	AAGAAAGCGA	AAGGAGCGGG	720
	CGCTAGGGCG	CTGGCAAGTG	TAGCGGTCAC	GCTGCGCGTA	760
15	ACCACCACAC	CCGCCGCGCT	TAATGCGCCG	CTACAGGGCG	800
	CGTACTATGG	TTGCTTTGAC	GAGCACGTAT	AACGTGCTTT	840
	CCTCGTTGGA	ATCAGAGCGG	GAGCTAAACA	GGAGGCCGAT	880
	TAAAGGGATT	TTAGACAGGA	ACGGTACGCC	AGAATCTTGA	920
	GAAGTGTTTT	TATAATCAGT	GAGGCCACCG	AGTAAAAGAG	960
20	TCTGTCCATC	ACGCAAATTA	ACCGTTGTAG	CAATACTTCT	1000
	TTGATTAGTA	ATAACATCAC	TTGCCTGAGT	AGAAGAACTC	1040
	AAACTATCGG	CCTTGCTGGT	AATATCCAGA	ACAATATTAC	1080
	CGCCAGCCAT	TGCAACAGGA	AAAACGCTCA	TGGAAATACC	1120
	TACATTTTGA	CGCTCAATCG	TCTGAAATGG	ATTATTTACA	1160
25	TTGGCAGATT	CACCAGTCAC	ACGACCAGTA	ATAAAAGGGA	1200
	CATTCTGGCC	AACAGAG			1217

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 18 nucleotides

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

5 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

TGTAAAACGA CGGCCAGT

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